

Amendments to the Specification:

Please amend the specification as follows:

Please replace paragraph starting at page 3, line 11, with the following rewritten paragraph:

The article "Design Strategies for R744 Gas Coolers" von J.M. Yin, C.W. Bullard and P.S. Hrnjak (published in IIF-IIR Commission B1, B2, Purdue University USA-2000) compares and contrasts two configurations of gas coolers, namely what is known as the multi-pass heat exchanger, i.e. a single-row heat exchanger with medium flowing through it in multiple flows, and the multi-row countercurrent heat exchanger, in which three rows of tubes are provided connected in series on the refrigerant side. Since the refrigerant CO₂ (R744) enters the gas cooler in the supercritical state, i.e. in a single phase, it has a relatively high temperature gradient, unlike conventional refrigerant (R134a), which condenses at a constant temperature. This temperature gradient can be effectively reduced in a three-row countercurrent heat exchanger, for which reason the authors prefer this solution. Similar conclusions are reached by the authors J. ~~Peterson~~ Pettersen, A. Hafner, and G. Skaugen in their article "Development of compact heat exchangers for CO₂ air-conditioning systems" (published in Int. J. Refrig. vol. 21, no. 3 pages 180-193, 1998). In this case too, the countercurrent heat exchanger (counterflow heat exchanger) with a reduced size of end face and increased depth in the direction of air flow is described as an advantageous gas cooler.